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## SUBJECT CODE NO:- B-2173 FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. T.Y. (Sem-VI)

## Examination November/December- 2022 Electronics Paper- XX (602) 8085 Interfacing-II

[Max. Marks:50] [Time: 1:30 Hours] Please check whether you have got the right question paper. N.B 1. Attempt all questions Q.1 Give any five features of programmable interval timer 8253. What are the names of different modes of operations? Explain three causes of mode 0 operation with timing diagrams. OR Draw the pin diagram of 8253 programmable interval timer. Explain the use of A0 and A1 address 20 lines. Explain the working of 8253 as pulse generator with the help of three cases and timing diagrams. Q.2 Explain block transfer DMA mode of data transfer with the help of flowchart explain any twelve 20 feature of 8257 DMA controller. OR Write short note (Any four) 20 1) 8259 PIC initialization sequence with flowchart. 2) Interfacing diagram of single 8259 PIC with 8085 microprocessor and steps of interrupt operation. 3) Pin diagram of 8259 PIC

4) Format of operational command word OCW2.

Block diagram of 8253 programmable Interval timer.

5) Pin diagram of 8257 DMA controller

	ewrite the followings by selecting correct answer from given options.  The 8253 programmable interval timer has counters.				
1)				× -	
	a) 3	b) 4	c) 5	d) 6	The Box of
2)					
	The 8253 programmable interval timer has operating modes.				
	a) 4	b) 5		e) 6 d)	8 Store College
3)	The signal is used to enable 8253 programmable interval timer.				
	a) CLK	b)	CS	c) WR	d) RD
4)	The control word registers of 8253 is of bits				
	a) 6	b) 8	c) 10	(d)	16
		5.67×			
5)	The 8257 DMA controller have initialization command words.				
	a) 2	b) 3	c) 4	(d)	5
45					
6)	is input signal of 8257 DMA controller.				
	a) TC	b) AEN		c) Mark	d) Ready
				KO KA	Will Block
7)	The 8257 DMA controller has channels.				
	a) 4	b) 6		c) 8	d) 10
			S. P.	SER SAL	St. O.
8)	The maximum operating frequency of 8257 DMA controller is				
	a) 250 KH		500 KHz	c) 1MHz	d) 3MHz
	CAT A	ED. Soller.		Str. Sept.	,
9)	The 8259-interrupt controller provides liner for interrupt request.				
^ /	a) 5	b)	2 6	 c) 8	d) 10
	3	50x 70x0)	2897	(8)	<b>u</b> ) 10
10	nin o	of 8259 interrupt	controller is	bidirectional	
30	a) $\overline{CS}$	<b>5</b>	WR	c) CAS1	d) RD